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Message Text

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43
ACTION EUR-12

INFO OCT-01 ISO-00 ACDA-07 CIAE-00 DODE-00 PM-04 INR-07

L-03 NSAE-00 NASA-01 NSC-05 ERDA-05 OES-06 PA-01

PRS-01 USIA-06 EURE-00 /059 W
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TO SECSTATE WASHDC PRIORITY 8830
INFO AMEMBASSY BELGRADE
USMISSION BERLIN
AMEMBASSY BUCHAREST
AMEMBASSY BUDAPEST
AMEMBASSY PRAGUE
AMEMBASSY SOFIA
AMEMBASSY WARSAW
AMCONSUL LENINGRAD

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E.O. 11652: N/A
TAGS: TSPA, TGEN, UR, US
SUBJECT: SOVIET SPACE PHOTOGRAPHY - SOYUZ 22: PROJECT "RAINBOW"

REFS: (A) MOSCOW 12981, (B) TASS 50-8V, SEPTEMBER 15

1. SEPTEMBER 16 IZVESTIYA ARTICLE BY B. KONAVALOV PROVIDES DETAILS OF HIGHLY PUBLICIZED PHOTOGRAPHIC EQUIPMENT AND MISSION OF SOYUZ 22 WHICH WAS LAUNCHED SEPTEMBER 15.

2. ITEMS OF INTEREST IN ARTICLE INCLUDE FOLLOWING FACTS OF ZEISS CAMERA AND GOAL OF MISSION:

-- EACH OF THE FILM MAGAZINES WEIGH MORE THAN 13 KILOGRAMS AND CONTAIN FILM AND A PULLING MECHANISM.

- THE CAMERA ITSELF CONTAINS SIX LENSES FRAMED IN A
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RIGHT ANGLED CASE AND DIVIDED INTO PARTITIONS CREATING A

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HONEYCOMB EFFECT:

-- EACH FILM MAGAZINE "LOOKS" THROUGH ITS RESPECTIVE LENS;

-- EACH LENS HAS A DIFFERENT FILTER ALLOWING A NARROW WAVE LENGTH THROUGH TO THE FILM. THE SIX FILTERS COVER THE SPECTRUM FROM BLUE TO INFRARED;

-- FILMING SYNCHRONIZATION IS SO ACCURATE THAT ALL THE PICTURES OBTAINED THROUGH THE SIX LENSES CAN BE PATCHED INTO ONE PICTURE ON A SCREEN:

-- BY COMBINING ANY 4 OF THE 6 EXPOSURES, IT IS POSSIBLE TO "MARK OUT ANY NECESSARY NATURAL FORMATION BY AN ARTIFICIAL COLOR." FOR EXAMPLE, A GREEN CAR IN A GREEN MEADOW CAN BE MADE TO APPEAR GREEN AGAINST A RED BACKGROUND;

-- THE PRISM ENABLES PHYSICISTS TO "DECOMPOSE" A WHITE BEAM INTO ALL COLORS OF THE RAINBOW OR SYNTHESIZE A ONE COLOR IMAGE INTO USABLE PICTURES;

-- THIS SPACE PROJECT WITH THE GDR WAS PLANNED IN LATE 1974 WITHIN THE PROGRAM INTERKOSMOS;

-- THE NEW PHOTOGRAPHY WILL PROVIDE VALUABLE INFORMATION FOR THE NATIONAL ECONOMICS OF ALL SOCIALIST COUNTRIES.

3. COMMENT: THE SOYUZ 22 EXPERIMENT WITH THE GDR MARKS THE BEGINNING OF A NEW EAR FOR INTERKOSMOS. EASTERN EUROPEAN TECHNOLOGY AND HARDWARE HAVE ALWAYS BEEN A PART OF THE SOVIET SPACE PROGRAM, BUT THIS IS THE FIRST EXPERIMENT IN SPACE IN WHICH THE COOPERATIVE NATURE OF THE VENTURE WAS THE HIGHLIGHT OF MISSION.

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Message Attributes

Automatic Decaptioning: X
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Current Classification: UNCLASSIFIED
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Disposition Action: RELEASED
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Disposition Case Number: n/a
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